CONTENTS

		NUMBER 1
I. CHATTORAJ, K. R. M. RAO, S. DAS	1	Anodic reactions of amorphous and devitrified Fe-B-Si-
and A. MITRA	17	Nb-Cu alloys in buffered chloride and fluoride
M. F. MONTEMOR, A. M. P. SIMES, M. G. S. FERREIRA and M. DA CUNHA BELO	17	The role of Mo in the chemical composition and semi- conductive behaviour of oxide films formed on stainless steels
J. Scherer, O. M. Magnussen, T. Ebel and R. J. Behm	35	Initial stages of the anodic etching of aluminum foils studied by atomic force microscopy
K. Nozawa and K. Aramaki	57	One- and two-dimensional polymer films of modified alkanethiol monolayers for preventing iron from cor- rosion
A. R. MENDOZA and F. CORVO	75	Outdoor and indoor atmospheric corrosion of carbon steel
M. I. Luppo, A. Hazarabedian and J. Ovejero-García	87	Effects of delta ferrite on hydrogen embrittlement of austenitic stainless steel welds
E. M. M. SUTTER, F. AMMELOOT,	105	Heterocyclic compounds used as corrosion inhibitors:
M. J. POUET, C. FIAUD and R. COUFFIGNAL		correlation between ¹³ C and ¹ H NMR spectroscopy and inhibition efficiency
B. R. LINTER and G. T. BURSTEIN	117	Reactions of pipeline steels in carbon dioxide solutions
I. DEHRI, R. L. HOWARD and S. B. LYON	141	Local electrochemical impedance at the cut-edge of coil- coated galvanized steel after corrosion testing
D. HARDIE and S. OUYANG	155	Effect of hydrogen and strain rate upon the ductility of mill-annealed Ti6Al4V
U. KAMACHI MUDALI, B. REYNDERS and M. STRATMANN	179	Localised corrosion behaviour of Fe-N model alloys
S. A. Serebrinsky, G. S. Duffó and J. R. Galvele	191	Effect of strain rate on stress corrosion crack velocity: difference between intergranular and transgranular cracking
G. LAGUZZI, L. TOMMESANI, L. LUVIDI, R. BUCCI and G. BRUNORO	197	Thin layer activation technique application in bronze corrosion monitoring
G. RAZZINI, M. CABRINI, S. MAFFI, G. MUSSATI and L. PERALDO BICELLI	203	Photoelectrochemical visualization in real-time of hydro- gen distribution in plastic regions of low-carbon steel
	209	Corrosion Diary
	1	Keywords for Corrosion Science

		NUMBER 2
J. DE LAET, X. ZHOU, P. SKELDON, G. E. THOMPSON, G. C. WOOD, H.	213	The behaviour of chromium during anodizing of Al-Cr alloys
HABAZAKI, K. TAKAHIRO, S. YAMAGUCHI and K. SHIMIZU		
YJ. TAN	229	Wire beam electrode: A new tool for studying localised corrosion and other heterogeneous electrochemical

G. SONG, A. ATRENS and M.

DARGUSCH
D. WALLINDER, J. PAN, C. LEYGRAF and A. DELBLANC-BAUER

DECEMBER 1

DECEMBER 2

DECEMBER 2

DECEMBER 2

DECEMBER 2

DECEMBER 3

DECEMBER 2

DECEMBER 3

V. GUILLAUMIN and G. MANKOWSKI

C. C. LEE and F. MANSFELD

A. BARBUCCI, G. FARNÉ,

and G. Cerisola M. Mehmood, E. Akiyama,

A. LE BEUZE J.-B. VOGT

M. STRATMANN

M. STRATMANN

P. MATTEAZZI, R. RICCIERI

H. HABAZAKI, A. KAWASHIMA,

K. Asami and K. Hashimoto M. Bouayed, H. Rabaà, A. Srhiri,

Y .- Y . SAILLARD, A. BEN BACHIR and

J. M. G. DE SALAZAR, A. URENA.

A. LENG, H. STRECKEL and

A. LENG, H. STRECKEL and

A. LENG, H. STRECKEL.

S. MANZANEDO and M. I. BARRENA

K. HOFMANN and M. STRATMANN

Volume Contents

P. SKELDON, G. E. THOMPSON, G. C. WOOD, X. ZHOU, H. HABAZAKI and K. SHIMIZU	291	Interactions of alloying elements during anodizing of dilute Al-Au-Cu and Al-W-Zn alloys and consequences for film growth
M. A. Elmorsi	305	Using acrylamide and oligo (oxyethylene) methacrylate in corrosion protection of steel
X. L. CHENG, H. Y. MA, S. H. CHEN, R. YU, X. CHEN and Z. M. YAO	321	Corrosion of stainless steels in acid solutions with organic sulfur-containing compounds
M. A. Sanjuán	335	Effect of curing temperature on corrosion of steel bars embedded in calcium aluminate mortars exposed to chloride solutions
M. I. ABDULSALAM and H. W. Pickering	351	Effect of the applied potential on the potential and current distributions within crevices in pure nickel
L. A. James and W. C. Moshier	373	The effect of potential upon the high-temperature fatigue crack growth response of low-alloy steels, part 1: crack growth results
W. C. Moshier and L. A. James	401	The effect of potential upon the high-temperature fatigue crack growth response of low-alloy steels, part 2: sulfide-potential interaction
	417	Corrosion Diary
	1	Keywords for Corrosion Science

NUMBER 3

421

439

Localized corrosion of 2024 T351 aluminium alloy in
chloride media
Automatic classification of polymer coating quality using
artificial neural networks

463 Corrosion behaviour of nanocrystalline Cu₉₀Ni₁₀ alloy in neutral solution containing chlorides

477 The effect of heat treatment on the corrosion behavior of sputter-deposited aluminum-chromium alloys

501 Experimental and theoretical study of organic corrosion inhibitors on iron in acidic medium

519 Hydrogen-induced phase transformation in a high nitrogen austenitic stainless steel

529 Corrosion behaviour of AA6061 and AA7005 reinforced with Al₂O₃ particles in aerated 3.5% chloride solutions: potentiodynamic measurements and microstructure evaluation.

547 The delamination of polymeric coatings from steel. Part 1: Calibration of the Kelvinprobe and basic delamination mechanism

579 The delamination of polymeric coatings from steel. Part 2: First stage of delamination, effect of type and concentration of cations on delamination, chemical analysis of the interface

599 The delamination of polymeric coatings from steel. Part 3: Effect of the oxygen partial pressure on the delamination reaction and current distribution at the metal/polymer interface

621 Corrosion Diary I Keywords for Corrosion Science

NUMBER 4

B. ROSALES, R. VERA and Evaluation of the protective properties of natural and artificial patinas on copper. Part I. Patinas formed by G. MORIENA immersion S.-I. Pyun, S.-M. Moon, S.-H. Ahn 653 Effects of Cl⁻, NO₃ and SO₄² ions on anodic dissolution and S.-S. KIM of pure aluminum in alkaline solution H.-S. KUO, H. CHANG and 669 The corrosion behavior of AISI 310 stainless steel in W.-T. TSAL thiosulfate ion containing saturated ammonium chloride solution Inhibitive effect of 4- and 5-carboxybenzotriazole on V. OTIENO-ALEGO, N. HUYNH, 685 T. NOTOYA, S. E. BOTTLE and copper corrosion in acidic sulphate and hydrogen sulphide D. P. SCHWEINSBERG solutions H. Lu, Y. Su, Y. WANG and W. CHU 699 In situ TEM research of dislocation emission and microcrack nucleation for Ti after adsorption by Hg W. A. BADAWY, F. M. AL-KHARAFI 709 Electrochemical behaviour and corrosion inhibition of and A. S. EL-AZAB Al, Al-6061 and Al-Cu in neutral aqueous solutions F. CZERWINSKI and J. A. SZPUNAR 729 Controlling the surface texture of nickel for high temperature oxidation inhibition M. Z. YANG, Q. YANG and J. L. LUO 741 Effects of hydrogen on passive film and corrosion of AISI 310 stainless steel S. T. AMARAL and I. L. MÜLLER 747 Passivation of pure iron in alkaline solution containing silicate and sulphate-Galvanostatic and Potentiostatic S. T. AMARAL and I. L. MÜLLER 759 A RRDE study of the electrochemical behavior of iron in solutions containing silicate and sulphate at pH 10-13 X. CHENG, H. MA, S. CHEN, L. NIU, 773 Electrochemical behaviour of chromium in acid solutions S. LEI, R. YU and Z. YAO F. BENTISS, M. LAGRENEE, 789 The corrosion inhibition of mild steel in acidic media by a M. TRAISNEL and J. C. HORNEZ new triazole derivative M. L. DOCHE, J. J. RAMEAU, 805 Electrochemical behaviour of aluminium in concentrated R. DURAND and F. NOVEL-CATTIN NaOH solutions 827 Corrosion Diary

Keywords for Corrosion Science

Keywords for Corrosion Science

		NUMBER 5
$Y.\ Feng,\ K.\ S.\ Siow,\ W.\ K.\ Teo$ and $A.\ K.\ Hsieh$	829	The synergistic effects of propargyl alcohol and potassium iodide on the inhibition of mild steel in 0.5 M sulfuric acid solution
S. ZHANG, T. SHIBATA and	853	Crack initiation and propagation of sensitized Type 304
T. HARUNA		stainless steel in the mixed solutions of sulfate and borate
V. VIGNAL, J. M. OLIVE and	869	Effect of molybdenum on passivity of stainless steels in
D. Desjardins		chloride media using ex situ near field microscopy observations
A. M. BECCARIA and	885	The inhibitive action of metacryloxypropylmethoxysilane
L. CHIARUTTINI		(MAOS) on aluminium corrosion in NaCl solutions
P. CASTELLO, F. H. STOTT and	901	Yttrium-promoted selective oxidation of aluminium in the
F. GESMUNDO		oxidation at 1100°C of an eutectic Ni-Al-Cr ₃ C ₂ alloy
P. CASTELLO, Y. NIU and	919	The sulphidation of copper-rich Cu-Ag alloys in H ₂ -H ₂ S
F. GESMUNDO		at 550-750°C
L. KOBOTIATIS, N. PEBERE and	941	Study of the electrochemical behaviour of the 7075
P. G. KOUTSOUKOS		aluminum alloy in the presence of sodium oxalate
L. F. GARFIAS-MESIAS and	959	Metastable pitting in 25 Cr duplex stainless steel
J. M. SYKES		
Y. NIU, F. GESMUNDO, R. YAN and	989	The corrosion of Fe-15 wt% Y and Fe-30 wt% Y in
W. Wu		sulfidizing-oxidizing atmospheres at 600-800 C
M. J. ROBINSON and N. C. JACKSON	1013	The influence of grain structure and intergranular corrosion rate on exfoliation and stress corrosion cracking of high strength Al-Cu-Mg alloys

		NUMBER 6
B. Malki, A. Legris and D. Gorse	1031	Threshold stress for crack initiation in yellow brass immersed in sodium nitrite solutions
J. L. Albarran, L. Martinez and H. F. Lopez	1037	Effect of heat treatment on the stress corrosion resistance of a microalloyed pipeline steel
S. COLIN, E. BECHE, R. BERJOAN, H. JOLIBOIS and A. CHAMBAUDET	1051	An XPS and AES study of the free corrosion of Cu-, Ni- and Zn-based alloys in synthetic sweat
J. M. OLIVE, J. CWIEK and D. DESJARDINS	1067	Quantification of the hydrogen produced during corrosion
A. CONDE and J. J. DE DAMBORENEA	1079	fatigue crack propagation Stress corrosion cracking behaviour of 8090 Al–Li alloy at
X. ZHOU, G. E. THOMPSON, P. SKELDON, G. C. WOOD, K. SHIMIZU and H. HABAZAKI	1089	313 K. The effect of grain structure Anodic oxidation of an Al-2wt% Cu alloy: effect of grain orientation
XY. LI, E. AKIYAMA, H. HABAZAKI, A. KAWASHIMA, K. ASAMI and K. HASHIMOTO	1095	Electrochemical and XPS studies of the corrosion behavior of sputter-deposited amorphous Fe-Cr-Ni-Nb alloys in 6 M HCl
S. H. Goods and R. W. BRADSHAW	1119	Constant extension rate testing of IN625LCF in molten nitrate salt
V. LIGIER, M. WERY, JY. HIHN, J. FAUCHEU and M. TACHEZ	1139	Formation of the main atmospheric zinc end products: $NaZn_4Cl(OH)_6SO_4 \cdot 6H_2O$, $Zn_4SO_4(OH)_6 \cdot nH_2O$ and Zn_4Cl_2 (OH) $_4SO_4 \cdot 5H_2O$ in [Cl $^-$] [SO_4^2 $^-$] [HCO $_3$] [H $_2O_2$] electrolytes
K. DAROWICKI and S. JANICKI	1165	Evaluation of the effect of ruthenium oxide on the properties of composite electrodes used in cathodic protection
A. CAKIR, S. TUNCELL and A. AYDIN	1175	AE response of 316L SS during SSR test under potentio- static control
G. E. KIOURTSIDIS, S. M. SKOLIANO and E. G. PAVLIDOU	1185	A study on pitting behavior of AA2024/SiC _p composites using the double cycle polarization technique
A. FRIGNANI, L. TOMMESANI, G. BRUNORO, C. MONTICELLI and M. FOGAGNOLO	1205	Influence of the alkyl chain on the protective effects of 1,2,3-benzotriazole towards copper corrosion. Part I: inhibition of the anodic and cathodic reactions
A. FRIGNANI, M. FONSATI, C. MONTICELLI and G. BRUNORO	1217 I	Influence of the alkyl chain on the protective effects of 1,2,3-benzotriazole towards copper corrosion. Part II: formation and characterization of the protective films Keywords for <i>Corrosion Science</i>
		All'MDED 7
J. K. HEUER and J. F. STUBBINS	1231	NUMBER 7 An XPS characterization of FeCO ₃ films from CO ₂
Y. F. CHENG, M. WILMOTT and	1245	Analysis of the role of electrode capacitance on the initiation of hits for ASI6 carbon steel by electrochemical

J. K. HEUER and J. F. STUBBINS	1231	An XPS characterization of FeCO ₃ films from CO ₂ corrosion
Y. F. CHENG, M. WILMOTT and J. L. LUO	1245	Analysis of the role of electrode capacitance on the initiation of pits for A516 carbon steel by electrochemical noise measurements
J. FLIS, J. MANKOWSKI, T. ZAKROCZYMSKI, T. BELL, S. JANOSI, Z. KOŁOZSVARY and B. NAROWSKA	1257	Surface films on plasma nitrided stainless steel subjected to passivation treatments
S. Li, S. Chen, S. Lei, H. Ma, R. Yu and D. Liu	1273	Investigation on some Schiff bases as HCl corrosion inhibitors for copper
N. Cansever, A. F. Çakir and M. Ürgen	1289	Inhibition of stress corrosion cracking of AISI 304 stainless steel by molybdate ions at elevated temperatures under salt crust
P. ZÁHUMENSKÝ, S. TULEJA, J. ORSZÁGOVÁ, J. JANOVEC and V. SILÁDIOVÁ	1305	Corrosion resistance of 18Cr-12Ni-2,5Mo steel annealed at 500-1050 C
B. MÜLLER, M. SHAHID and G. KINET	1323	Nitro- and aminophenols as corrosion inhibitors for aluminium and zinc pigments

		711
A. ROBIN, H. R. Z. SANDIM and J. L. ROSA	1333	Corrosion behavior of the Ti-4% Al-4% V alloy in boiling nitric acid solutions
H. J. CHUANG, S. Y. CHEN and	1347	
S. L. I. CHAN	1347	Corrosion and hydrogen damage resistance of stainless steels in Ni/MHx batteries
G. P. CICILEO, B. M. ROSALES,	1359	Comparative study of organic inhibitors of copper
F. E. VARELA and J. R. VILCHE	1557	corrosion
A. R. TRUEMAN,	1377	A study of the effect of cobalt additions on the corrosion
D. P. SCHWEINSBERG and		of tungsten carbide/carbon steel metal matrix composites
G. A. HOPE		
XP. Guo and Y. TOMOE	1391	The effect of corrosion product layers on the anodic and cathodic reactions of carbon steel in CO ₂ -saturated MDEA solutions at 100°C
L. H. HIHARA, A. IWANE, S. VOSS,	1403	Initiation of corrosion in metal substrates coated with
R. E. ROCHELEAU and Z. ZHANG		plasma-deposited hydrogenated amorphous silicon alloy ceramic thin films
B. VUILLEMIN and R. OLTRA	1419	The quantitative analysis of chromous ions by channel flow double electrode (CFDE) technique
S. E. Hsu and I. C. Hsu	1431	Study on VPS-cladding of NiAl intermetallics on the TiAl- based intermetallics
A. G. Muñoz and J. B. Bessone	1447	Pitting of aluminium in non-aqueous chloride media
	1465	Corrosion diary
	1	Keywords for Corrosion Science
		NUMBER 8
P. SCHMUKI, R. J. HUSSEY,	1467	Nature and growth of anodic and thermal oxides on GaAs
G. I. SPROULE, Y. TAO,		and Al _x Ga _{1-x} As
Z. R. Wasilewski,		
J. P. McCaffrey and		
M. J. GRAHAM		
E. V. KOROLEVA, G. E. THOMPSON, G. HOLLRIGL and M. BLOECK	1475	Surface morphological changes of aluminium alloys in alkaline solution: effect of second phase material
B. Zhu, G. Lindbergh and D. Simonsson	1497	Comparison of electrochemical and surface characteris- ation methods for investigation of corrosion of bipolar plate materials in molten carbonate fuel cell—Part I. Electrochemical study
D. Zun, C. Lumana and and	1616	Committee Color to the Color to

M. J. UKAHAM		
E. V. KOROLEVA, G. E. THOMPSON, G. HOLLRIGL and M. BLOECK	1475	Surface morphological changes of aluminium alloys in alkaline solution: effect of second phase material
B. ZHU, G. LINDBERGH and D. SIMONSSON	1497	Comparison of electrochemical and surface characteris- ation methods for investigation of corrosion of bipolar plate materials in molten carbonate fuel cell—Part I. Electrochemical study
B. ZHU, G. LINDBERGH and D. SIMONSSON	1515	Comparison of electrochemical and surface characteris- ation methods for investigation of corrosion of bipolar plate materials in molten carbonate fuel cell—Part II. Surface analysis
C. A. COTTAM and D. C. EMMONY	1529	TEA-CO ₂ laser surface processing of corroded metals
C. CORFIAS, N. PÉBÈRE and	1539	Characterization of a thin protective coating on galva-
C. LACABANNE		nized steel by electrochemical impedance spectroscopy and a thermostimulated current method
M. BOJINOV, I. BETOVA,	1557	The stability of the passive state of iron-chromium alloys
G. FABRICIUS, T. LAITINEN,		in sulphuric acid solution
R. RAICHEFF and T. SAARIO		
M. LAKATOS-VARSANYI and	1585	Cyclic voltammetry measurements of different single-, bi-
D. Hanžel		and multilayer TiN and single layer CrN coatings on low- carbon-steel substrates
X. ZHOU, G. E. THOMPSON,	1599	Film formation and detachment during anodizing of Al-
P. SKELDON, G. C. WOOD,		Mg alloys
K. SHIMIZU and H. HABAZAKI		
N. LOPEZ, M. CID and M. PUIGGALI	1615	Influence of α-phase on mechanical properties and corrosion resistance of duplex stainless steels
S. BALOVA and M. CHRISTOV	1633	Influence of temperature on autophoretic polymer deposition
R. F. A. JARGELIUS-PETTERSSON	1639	Electrochemical investigation of the influence of nitrogen alloying on pitting corrosion of austenitic stainless steels

XII	\	Volume Contents
T. ISHIKAWA, H. NAKAZAKI, A. YASUKAWA, K. KANDOR and M. SETO	1665	Influences of $\mathrm{Co}^{2^+}, \mathrm{Cu}^{2^+}$ and Cr^{3^+} ions on the formation of magnetite
und M. DETO	1681	Corrosion diary
	I	Keywords for Corrosion Science
		NUMBER 9
S. J. OH, D. C. COOK and H. E. TOWNSEND	1687	Atmospheric corrosion of different steels in marine, rural and industrial environments
F. CZERWINSKI, A. ZHILYAEV and J. A. SZPUNAR	1703	Grain boundary character distribution in oxides formed on (100) and (111) nickel single crystals coated with ceria gel
K. Aramaki	1715	Protection of iron corrosion by ultrathin two-dimensional polymer films of an alkanethiol monolayer modified with alkylethoxysilanes
C. L. ZENG, F. C. RIZZO, W. T. WU and M. J. MONTEIRO	1731	The oxidation of Co-Y binary alloys at 600-800 C in air
Z. SZKLARSKA-SMIALOWSKA	1743	Pitting corrosion of aluminum
S. L. LI, Y. G. WANG, S. H. CHEN, R. YU, S. B. LEI, H. Y. MA and D. X. LIU	1769	Some aspects of quantum chemical calculations for the study of Schiff base corrosion inhibitors on copper in NaCl solutions
K. SHIMIZU, G. M. BROWN, H. HABAZAKI, K. KOBAYASHI, P. SKELDON, G. E. THOMPSON and G. C. WOOD	1783	Direct evidence for interfacial enrichment of iron during anodic oxide growth on an Al ₆ Fe phase
Y. Niu, G. Y. Fu and F. GESMUNDO	1791	The corrosion of a Co-15 wt% Ce alloy in mixed oxidizing-sulfidizing gases at 600-800 C
Y. S. ZHANG and X. M. ZHU	1817	Electrochemical polarization and passive film analysis of austenitic Fe-Mn-Al steels in aqueous solutions
K. SHIMIZU, G. M. BROWN, K. KOBAYASHI, P. SKELDON, G. E. THOMPSON and G. C. WOOD	1835	A novel approach for the study of the migration of Clions in anodic alumina
XY. LI, E. AKIYAMA, H. HABAZAKI, A. KAWASHIMA, K. ASAMI and K. HASHIMOTO	1849	The corrosion behavior of sputter-deposited amorphous Fe-Cr-Ni-Ta alloys in 12 M HCl
M. MEHMOOD, E. AKIYAMA, H. HABAZAKI, A. KAWASHIMA, K. ASAMI and K. HASHIMOTO	1871	The degradation of the corrosion resistance of sputter- deposited chromium-titanium alloys by nanoscale hetero- geneity
	1891	Obituary: Professor Marcel Pourbaix (1904–1998)
		NUMBER 10
S. SATHIYANARAYANAN, M. SAHRE	1899	In-situ grazing incidence X-ray diffractometry observation

		NUMBER 10
S. SATHIYANARAYANAN, M. SAHRE and W. KAUTEK	1899	In-situ grazing incidence X-ray diffractometry observation of pitting corrosion of copper in chloride solutions
D. WANG, S. LI, Y. YING, M. WANG, H. XIAO and Z. CHEN	1911	Theoretical and experimental studies of structure and inhibition efficiency of imidazoline derivatives
M. TÜRKER	1921	The long-term oxidation behaviour of ferritic ODS alloys at 1100–1200 °C in air and nitrogen–2% oxygen
T. ZHAO and G. MU	1937	The adsorption and corrosion inhibition of anion surfactants on aluminium surface in hydrochloric acid
A. C. Crossland, H. Habazaki, K. Shimizu, P. Skeldon, G. E. Thompson, G. C. Wood, X. Zhou and C. J. E. Smith	1945	Residual flaws due to formation of oxygen bubbles in anodic alumina
M. ITAGAKI, T. MORI and K. WATANABE	1955	Channel flow double electrode study on electrochemical oscillation during copper dissolution in acidic chloride

solution

K. SHIMIZU, G. M. BROWN, H. HABAZAKI, K. KOBAYASHI, P. SKELDON, G. E. THOMPSON and G. C. WOOD	1971	Incorporation and migration of Cr^{3+} and PO_4^{3-} species in anodic alumina
M. UCHIDA and A. OKUWAKI	1977	The dissolution behavior of lead plates in aqueous nitrate solutions
H. BABA and T. KODAMA	1987	Corrosion inhibition and characteristics of the triazine- dithiol surface film on copper under potentiostatic anodization
J. Cai, R. A. Cottis and S. B. Lyon	2001	Phenomenological modelling of atmospheric corrosion using an artificial neural network
S. K. YEN	2031	Retardation effects of thermally grown oxide films on the hydrogen embrittlement of commercial pure titanium
A. C. Crossland, G. E. Thompson, C. J. E. Smith, H. Habazaki, K. Shimizu and P. Skeldon	2053	Formation of manganese-rich layers during anodizing of Al-Mn alloys

NUMBER 11

T. Burstein	2073	Editorial
Letter		
J. PRAKASH, L. REDEY and	2075	Corrosion studies of nickel-200 in high-temperature
D. R. VISSERS		ZEBRA batteries at 300 C
Papers		
D. S. AZAMBUJA, L. R. HOLZLE,	2083	Electrochemical behaviour of iron in neutral solutions of
I. L. MULLER and C. M. S. PIATNICKI		acetate and benzoate anions
K. ZAKOWSKI and W. SOKÓLSKI	2099	24-hour characteristic of interaction on pipelines of stray currents leaking from tram tractions
K. BOUZEK and H. BERGMANN	2113	Comparison of pure and white cast iron dissolution kinetics in highly alkaline electrolyte
G. ROCCHINI	2129	The evaluation of corrosion rates with the generalised inflection point method
P. SCHMUTZ and D. LANDOLT	2143	In-situ microgravimetric studies of passive alloys: potential sweep and potential step experiments with Fe-25Cr and Fe-17Cr-33Mo in acid and alkaline solution
G. R. ENGELHARDT,	2165	Transport processes in steam generator crevices-1.
D. D. MACDONALD and P. J. MILLETT		General corrosion model
G. R. ENGELHARDT,	2191	Transport processes in steam generator crevices. II. A
D. D. MACDONALD and P. J. MILLETT		simplified method for estimating impurity accumulation rates
K. ZAKOWSKI and W. SOKÓLSKI	2213	Numeric method of IR elimination from measurement results of potential of underground pipelines in the zone of interaction of stray currents

		NUMBER 12
I. O. WALLINDER, W. HE,	2229	Characterization of black rust staining of unpassivated
P-E. Augustsson and C. Leygraf		55% Al-Zn alloy coatings. Effect of temperature, pH and wet storage
A. A. HERMAS, M. S. MORAD and	2251	A correlation between phosphorous impurity in stainless
K. Ogura		steel and a second anodic current maximum in H2SO4
G. R. ENGELHARDT,	2267	Development of fast algorithms for estimating stress
D. D. MACDONALD and		corrosion crack growth rate
M. URQUIDI-MACDONALD		
L. J. YAN, L. NIU, H. C. LIN,	2303	Quantum chemistry study on the effect of Cl ion on
W. T. Wu and S. Z. Liu		anodic dissolution of iron in H ₂ S-containing sulfuric acid solutions
FB. Li, D. H. Bremner and	2317	Dissolution and passivation of iron in acetonitrile and
A. E. BURGESS		acetonitrile-water mixtures

M. A. ELMORSI and A. M. HASSANEIN

G. ROCCHINI

- 2337 Corrosion inhibition of copper by heterocyclic compounds
- 2353 Some considerations on the polarization resistance method
 - Index of Volume 41, 1999

